

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/630,233	07/29/2003	Michael P. Schrom	03-003 (ANSI01-00015)	8284	
37372	37372 7590 11/01/2006			EXAMINER	
FULBRIGH 2200 ROSS	IT & JAWORSKI, L.L AVENIJE	BOCKELMAN, MARK			
SUITE 2800			ART UNIT	PAPER NUMBER	
DALLAS, TX 75201-2784			3766		
		·	DATE MAILED: 11/01/200		

Please find below and/or attached an Office communication concerning this application or proceeding.

/	$\overline{}$
- ()	N
V	A
N.	u

	Application No.	Applicant(s)				
	10/630,233	SCHROM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mark W. Bockelman	3766				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 21 Au	<u>ıgust 2006</u> .					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims		•				
4) Claim(s) <u>46-65</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) <u>46-65</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	· 1.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	xaminer.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

Application/Control Number: 10/630,233

Art Unit: 3766

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 46 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Winkler USPN 5,555,618 (alone) or alternatively, in view of Brown et al USPN 5,334,169.

Winkler teaches the apparatus substantially as claimed with respect to figures 10-12. Applicants may possibly differ in reciting that the "insulative material does not possess and inner layer boundary between the first and second radial depths".

Applicants are apparently referring to their disclosure in which two layers of insulation consisting of an outer insulation layer and an inner insulation layer (having the second plurality of wires embedded therein) sandwich a the first plurality of wires, which in turn is covered by a heat shrink material and heated to fuse the layers together. It is noted that applicant's inner and outer insulation materials may be different materials. This

Art Unit: 3766

would tend to still have somewhat of a boundary since the materials are merely melted together at the inner face. In this respect, if the claim language quoted above includes fused materials, it would appear that the embodiments of figures 10-12 are formed, the materials are in a molten state since they are shore D harness of 75 (column 10, lines 50-52), which requires heating for embedding the wires, see column 6 lines18-23). Such heating would tend to fuse the two layers of polyurethane together. If not inherent, it would have been obvious to fuse these two layers of materials together as taught by Brown USPN 5,334,169. Brown teaches embedding wires of opposite winding in a tubular member (for carrying electricity - column 1 lines 24-25) wherein it is taught that the first and second layers are kept in a molten condition during extruding to produce a monolithic layer of material. Such is taught to be beneficial to prevent unwanted separation of the layers. To have produced the wire embedded lead of Winkler using the extruding techniques of Brown et al to prevent unwanted layer separation would have been obvious in view of Brown et al.

Claims 47-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winkler USPN 5,555,618 (alone) or alternatively, in view of Brown et al USPN 5,334,169. While Winkler teaches the outer covering of the medical lead of embodiments 10-12 have an outer diameter of .078 in (6 F), Winkler does not teach the the number of wires applicant states, but does teach any number (10 or more) may be used. It is understood that as many could be used as desired and can be accommodated by altering the helical pitch of the wires along the lead shaft.

Claims 56 - 65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winkler USPN 5,555,618 (alone or alternatively, in view of Brown et al USPN 5,334,169) and further in view of Starkebaum USPN 5733,322. While Winkler teaches his electrode lead maybe used in a variety of medical procedures he does not claim a pulse generator capable of applying stimulation energy to nerves. However, using leads with pulse generators that are capable of stimulating nerves would have been apparent to one of ordinary skill in the art. Starkebaum is cited as one of such pulse generators. As noted above applicant's sizes and number of conductors would have been obvious depending on the number of electrodes needed.

Response to Arguments

Applicant's arguments filed 8-21-2006 have been fully considered but they are not persuasive. Applicant argues that the Winkler reference does not produce a boundary-free interface because two separate layers are produced. Applicant's boundary- free interface is highly subjective to interpretation and there is no evidence on the record to show anything to quantify the result. In fact, it would appear the Winkler reference would produce more on a boundary free interface since the first layer must still be molten enough to embed the wires therein. Applicant's method merely places the wires about the inner layer and heats the outer layer to shrink the outer tubing about the inner layer. It is unclear to what degree the inner layer is heated if at all. Applicant seems to argue that the resulting structure is homogenous and that the inner layer is heated to a molten state to provide for mixing of the two materials. However, when the examiner introduces the Brown reference applicant argues that a molten state would not

Art Unit: 3766

allow the wires to maintain their relative position. The considers these arguments to be speculative. One would allow the molten state in Brown to be viscous enough to form the resulting product in Brown or the Brown method would not work.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark W. Bockelman whose telephone number is (571) 272-4941. The examiner can normally be reached on Monday - Friday 10:00 to 6:30.

Application/Control Number: 10/630,233

Art Unit: 3766

Page 6

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571) 272 -6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MWB

October 29, 2006